

IN THE CLAIMS

Please amend the claims as follows:

1. (Currently amended) Method for communicating a primitive ~~identification information~~ from a terminal device to a network, ~~said~~ with a primitive having information elements with a structure recognized by said terminal device and at least one other entity able to communicate over said network, comprising:

providing said primitive with an information element identifying a client of said terminal device, and

providing said primitive ~~identifying said client~~ also with an information element identifying a user of said client.

2. (Currently amended) The method of claim 1, wherein said primitive ~~comprises~~ is an update presence primitive for use in communicating presence information to said network.

3. (Currently amended) The method of claim 1, wherein said primitive ~~comprises~~ is an unsubscribe presence primitive for communicating a request to said network to discontinue receipt of selected presence information.

4. (Currently amended) The method of claim 1, wherein said primitive ~~comprises~~ is a leave group primitive for communicating a request to discontinue participation in a group to said network.

5. (Currently amended) The method of claim 1, wherein said primitive ~~comprises~~ is a create group primitive for communicating a request to create a group to said network.

6. (Currently amended) The method of claim 1, wherein said primitive ~~comprises~~ is a delete group primitive for communicating a request to delete a group to said network.

7. (Currently amended) The method of claim 1, wherein said primitive ~~comprises~~is a get group information primitive for communicating a request for group information to said network.

8. (Previously presented) The method of claim 1, further comprising:
providing said primitive with an information element identifying a client of another terminal device, and
providing said primitive with an information element identifying a user of said client of said other terminal device.

9. (Currently amended) The method of claim 8, wherein said primitive ~~comprises~~is a get presence primitive for communicating a request for presence information to said network.

10. (Currently amended) The method of claim 8, wherein said primitive ~~comprises~~is a subscribe presence primitive for communicating a request to subscribe to presence information to said network.

11. (Currently amended) The method of claim 8, wherein said primitive ~~comprises~~is a message primitive for communicating a message to said network.

12. (Currently amended) The method of claim 8, wherein said primitive ~~comprises~~is an invite user primitive for communicating a request to invite a user to said network.

13. (Previously presented) The method of claim 1, wherein said at least one other entity comprises at least one server able to recognize said structure of said primitive, and the method comprises:

said client first logging onto said server without providing said primitive with information elements identifying said client and said user, but identifying a supported digest schema,

the client receiving back an authorization failure signal from said server with a nonce serving as a challenge for the client,

the client calculating a digest concatenating the nonce, a user password and a client identification using the supported digest schema,

the client once again logging onto said server but this time with the calculated digest, the server recalculating the digest using the supported schema and using the nonce and the user password and client identification extracted by the server from the digest provided by the client, and

the server comparing the re-calculated digest with the provided digest and accepting the login if they match.

14. (Previously presented) The method of claim 1, wherein said at least one other entity is configured to use said information element identifying a client of said terminal device and said information element identifying a user of said client to distinguish said user and said client.

15. (Previously presented) System for communicating identification information over a network, comprising:

at least one terminal device for providing a primitive with an information element identifying a client of said terminal device and an information element identifying a user of said client, and

at least one other entity for receiving said primitive provided over said network, wherein said information element identifying a client of said terminal device and said information element identifying a user of said client are used by the at least one other entity to distinguish said user and said client.

16. (Currently amended) The system of claim 15, wherein said primitive ~~comprises~~is an update presence primitive for use in communicating presence information to said network.

17. (Currently amended) The system of claim 15, wherein said primitive ~~comprises~~is an unsubscribe presence primitive for communicating a request to said network to discontinue receipt of selected presence information.

18. (Currently amended) The system of claim 15, wherein said primitive ~~comprises~~is a leave group primitive for communicating a request to discontinue participation in a group to said network.

19. (Currently amended) The system of claim 15, wherein said primitive ~~comprises~~is a create group primitive for communicating a request to create a group to said network.

20. (Currently amended) The system of claim 15, wherein said primitive ~~comprises~~is a delete group primitive for communicating a request to delete a group to said network.

21. (Currently amended) The system of claim 15, wherein said primitive ~~comprises~~is a get group information primitive for communicating a request for group information to said network.

22. (Previously presented) The system of claim 15, wherein
said at least one terminal device is configured to provide said primitive with an information element identifying a client of another terminal device, and an information element identifying a user of said client of said other terminal device.

23. (Currently amended) The system of claim 22, wherein said primitive ~~comprises~~is a get presence primitive for communicating a request for presence information to said network.

24. (Currently amended) The system of claim 22, wherein said primitive ~~comprises~~is a subscribe presence primitive for communicating a request to subscribe to presence information to said network.

25. (Currently amended) The system of claim 22, wherein said primitive ~~comprises~~is a message primitive for communicating a message to said network.

26. (Currently amended) The system of claim 22, wherein said primitive ~~comprises~~is an invite user primitive for communicating a request to invite a user to said network.

27. (Previously presented) The system of claim 15, wherein said at least one other entity comprises at least one server able to recognize a structure of said primitive,

wherein said client is configured to first log onto said server without providing said primitive with information elements identifying said client and said user, but identifying a supported digest schema, receive an authorization failure signal from said server with a nonce serving as a challenge for the client, calculate a digest concatenating the nonce, a user password and a client identification using the supported digest schema, and once again log onto said server but this time with the calculated digest,

and wherein the server is configured to recalculate the digest using the supported schema and using the nonce, the user password and client identification extracted from the digest provided by the client, compare the re-calculated digest with the provided digest and accept the login if they match.

28. (Currently amended) Device for communicating a primitive over a network, said ~~identification information with a primitive~~ having information elements with a structure recognized by at least one other entity of the ~~over a network~~, wherein said device is configured to:

provide said primitive with an information element identifying a client of said device, and provide said primitive ~~identifying said client~~ also with an information element identifying a user of said client.

29. (Currently amended) The device of claim 28, wherein said primitive ~~comprises~~ is an update presence primitive for use in communicating presence information to said network.

30. (Currently amended) The device of claim 28, wherein said primitive ~~comprises~~ is an unsubscribe presence primitive for communicating a request to said network to discontinue receipt of selected presence information.

31. (Currently amended) The device of claim 28, wherein said primitive ~~comprises~~is a leave group primitive for communicating a request to discontinue participation in a group to said network.

32. (Currently amended) The device of claim 28, wherein said primitive ~~comprises~~is a create group primitive for communicating a request to create a group to said network.

33. (Currently amended) The device of claim 28, wherein said primitive ~~comprises~~is a delete group primitive for communicating a request to delete a group to said network.

34. (Currently amended) The device of claim 28, wherein said primitive ~~comprises~~is a get group information primitive for communicating a request for group information to said network.

35. (Currently amended) The device of claim 28, wherein said device is further configured to:
provide said primitive with an information element identifying a client of another device,
and
provide ~~f~~said primitive with an information element identifying a user of said client of
said another device.

36. (Currently amended) The device of claim 35, wherein said primitive ~~comprises~~is a get presence primitive for communicating a request for presence information to said network.

37. (Currently amended) The device of claim 35, wherein said primitive ~~comprises~~is a subscribe presence primitive for communicating a request to subscribe to presence information to said network.

38. (Currently amended) The device of claim 35, wherein said primitive ~~comprises~~is a message primitive for communicating a message to said network.

39. (Currently amended) The device of claim 35, wherein said primitive ~~comprises~~is an invite user primitive for communicating a request to invite a user to said network.

40. (Previously presented) The device of claim 28, wherein said at least one other entity comprises at least one server, and the client is configured to first log onto said server without providing said primitive with information elements identifying said client and said user, but identifying a supported digest schema, receive an authorization failure signal from said server with a nonce serving as a challenge for the client, calculate a digest concatenating the nonce, a user password and a client identification using the supported digest schema, and once again log onto said server but this time with the calculated digest.

41. (Previously presented) The device of claim 28, wherein said at least one other entity is configured to use said information element identifying a client of said terminal device and said information element identifying a user of said client to distinguish said user and said client.

42. (Currently amended) Server for communicating ~~identification information~~a primitive over a network, ~~said~~ with a primitive having information elements with a structure recognized by clients being able to communicate with said server over said network, wherein ~~the server is configured to—~~
~~communicate said primitive~~ comprises ~~with an~~ information element identifying a client; and
~~—communicate said primitive identifying said client also with an~~ information element identifying a user of said client.

43. (Currently amended) The server of claim 42, wherein said primitive ~~comprises~~is an update presence primitive for use in communicating presence information.

44. (Currently amended) The server of claim 42, wherein said primitive ~~comprises~~is an unsubscribe presence primitive for communicating a request to discontinue receipt of selected presence information.

45. (Currently amended) The server of claim 42, wherein said primitive ~~comprises~~is a leave group primitive for communicating a request to discontinue participation in a group.

46. (Currently amended) The server of claim 42, wherein said primitive ~~comprises~~is a create group primitive for communicating a request to create a group.

47. (Currently amended) The server of claim 42, wherein said primitive ~~comprises~~is a delete group primitive for communicating a request to delete a group.

48. (Currently amended) The server of claim 42, wherein said primitive ~~comprises~~is a get group information primitive for communicating a request for group information.

49. (Currently amended) The server of claim 42, wherein said ~~server is~~primitive further ~~configured to comprises:~~

~~communicate said primitive with~~ an information element identifying another client, and
~~communicate said primitive with~~ an information element identifying a user of said other client.

50. (Currently amended) The server of claim 49, wherein said primitive ~~comprises~~is a get presence primitive for communicating a request for presence information.

51. (Currently amended) The server of claim 49, wherein said primitive ~~comprises~~is a subscribe presence primitive for communicating a request to subscribe to presence information.

52. (Currently amended) The server of claim 49, wherein said primitive ~~comprises~~is a message primitive for communicating a message.

53. (Currently amended) The server of claim 49, wherein said primitive ~~comprises~~is an invite user primitive for communicating a request to invite a user.

54. (Previously presented) The server of claim 42, wherein the server is configured to receive a login message from said client without said primitive with information elements identifying said client and said user, but identifying a supported digest schema, transmit an authorization failure signal to said client with a nonce serving as a challenge for the client, receive from the client a digest calculated by the client concatenating the nonce, a user password and a client identification using the supported digest schema, recalculate the digest using the supported schema and using the nonce, the user password and client identification extracted from the digest provided by the client, compare the re-calculated digest with the provided digest, and transmit a result signal to said client accepting the login if they match.
55. (Previously presented) The server of claim 42, wherein said server is configured to use said information element identifying a client of said terminal device and said information element identifying a user of said client to distinguish said user and said client.
56. (Previously presented) A physical device including a client, said client comprising various layers including a service capabilities layer responsive to various constituent information elements for combination into an outgoing primitive, said various constituent information elements including an information element identifying the client of said physical device and an information element separately identifying a user of said client.
57. (Previously presented) The device of claim 56, wherein said primitive includes a request for a user identification, said user identification identifies a user which is a destination of a requested operation.
58. (Previously presented) The device of claim 57, wherein said primitive further includes a request for a client identification, said client identification identifies a client of the user.

59. (Currently amended) System for communicating ~~identification information~~ a primitive over a network, comprising at least one terminal device and at least one other entity, wherein said terminal device comprises:

means for providing ~~a said~~ primitive with an information element identifying a client of said terminal device, and

means for providing said primitive ~~identifying said client~~ also with an information element identifying a user of said client,

and said at least one other entity comprises:

means for receiving said primitive provided by said terminal device over said network, wherein said information element identifying said client of said terminal device and said information element identifying said a user of said client are used by the at least one other entity to distinguish said user and said client.

60. (Previously presented) The system of claim 59, wherein said at least one other entity comprises at least one server able to recognize a structure of said primitive, and said terminal device comprises:

means for first logging onto said server without providing said primitive with information elements identifying said client and said user, but identifying a supported digest schema,

means for receiving an authorization failure signal from said server with a nonce serving as a challenge for the client,

means for calculating a digest concatenating the nonce, a user password and a client identification using the supported digest schema, and

means for once again logging onto said server but this time with the calculated digest, and wherein the server comprises:

means for recalculating the digest using the supported schema and using the nonce and the user password and client identification extracted by the server from the digest provided by the client, comparing the recalculated digest with the provided digest and accepting the login if they match.

61. (Currently amended) Device for communicating ~~identification information with a primitive over a network, said a~~ primitive having information elements with a structure recognized by at least one other entity ~~over a of the~~ network, comprising:

means for providing said primitive with an information element identifying a client of said device, and

means for providing said primitive ~~identifying said client~~ also with an information element identifying a user of said client.

62. (Previously presented) The device of claim 61, further comprising:

means for providing said primitive with an information element identifying a client of another device, and

means for providing said primitive with an information element identifying a user of said client of said another device.

63. (Previously presented) The device of claim 61, wherein said at least one other entity comprises at least one server, and said device comprises:

means for first logging onto said server without providing said primitive with information elements identifying said client and said user, but identifying a supported digest schema,

means for receiving an authorization failure signal from said server with a nonce serving as a challenge for the client,

means for calculating a digest concatenating the nonce, a user password and a client identification using the supported digest schema, and

means for once again logging onto said server but this time with the calculated digest.

64. (Currently amended) Server for communicating a primitive ~~identification information~~ over a network, ~~said with a~~ primitive having information elements with a structure recognized by clients being able to communicate with said server over said network, said primitive comprising:

~~means for communicating said primitive with~~ an information element identifying a client of a terminal device, and

~~means for communicating said primitive identifying said client also with an information element identifying a user of said client.~~

65. (Currently amended) The server of claim 64, said primitive further comprising:

~~means for communicating said primitive with an information element identifying another client, and,~~

~~means for communicating said primitive with an information element identifying a user of said other client.~~

66. (Previously presented) The server of claim 64, comprising:

means for receiving a login message from said client without said primitive with information elements identifying said client and said user, but identifying a supported digest schema,

means for transmitting an authorization failure signal to said client with a nonce serving as a challenge for the client,

means for receiving from the client a digest calculated by the client concatenating the nonce, a user password and a client identification using the supported digest schema,

means for recalculating the digest using the supported schema and using the nonce and the user password and client identification extracted from the digest provided by the client,

means for comparing the re-calculated digest with the provided digest, and

means for transmitting a result signal to said client accepting the login if they match.

67. (New) The method of claim 1, wherein said information element identifying said client of said terminal device comprises a client name and a client address, said information element identifying said user of said client comprises a user name and a user password.